

**SP 978**

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# U-2R PHOTO CHART REPORT

NRO and USAF review(s) completed.

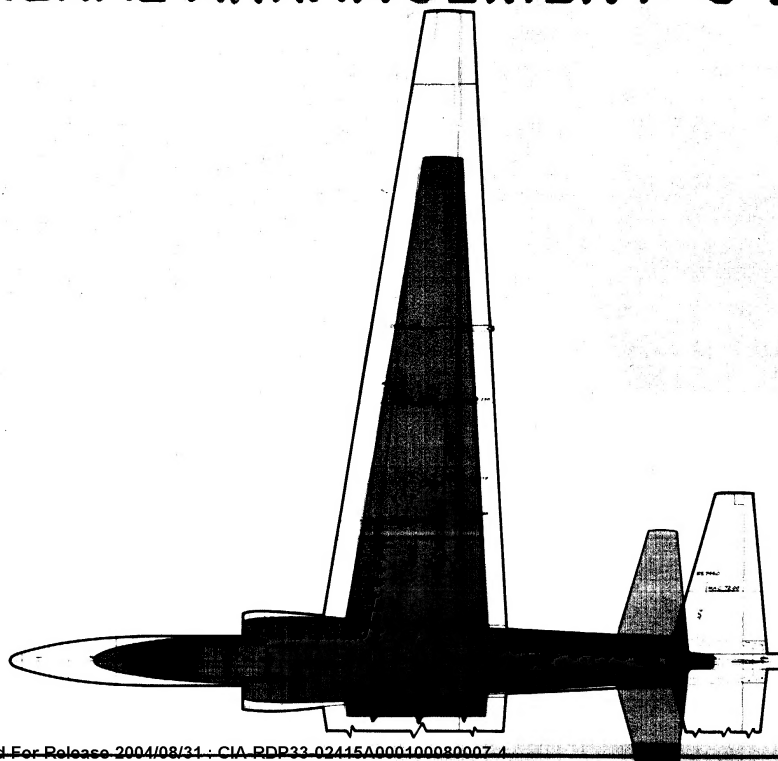
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# GENERAL ARRANGEMENT U-2R

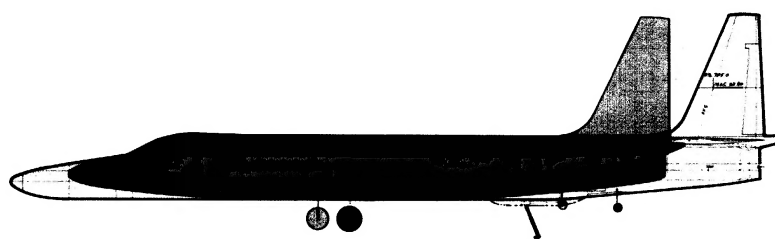


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633-3  
4-19-66

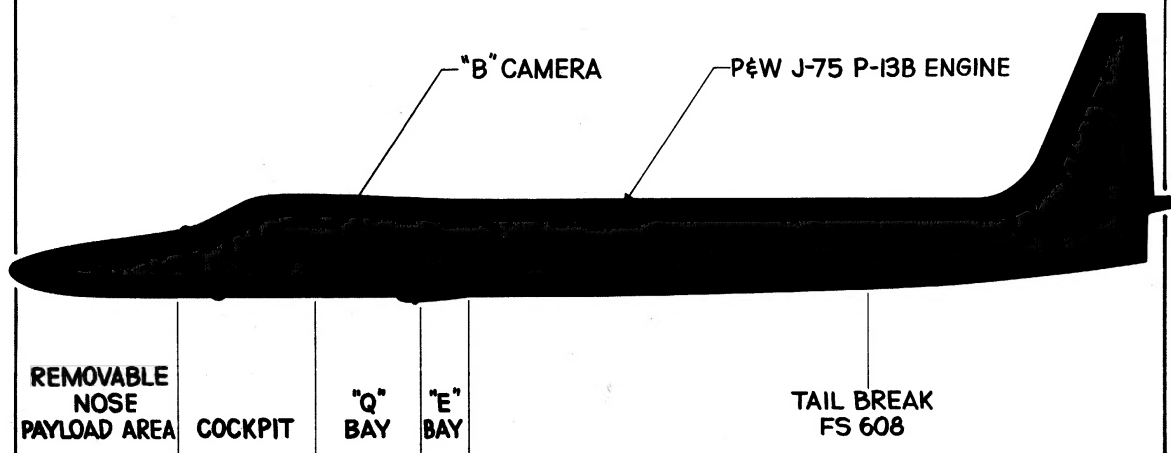
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## GENERAL ARRANGEMENT U-2R



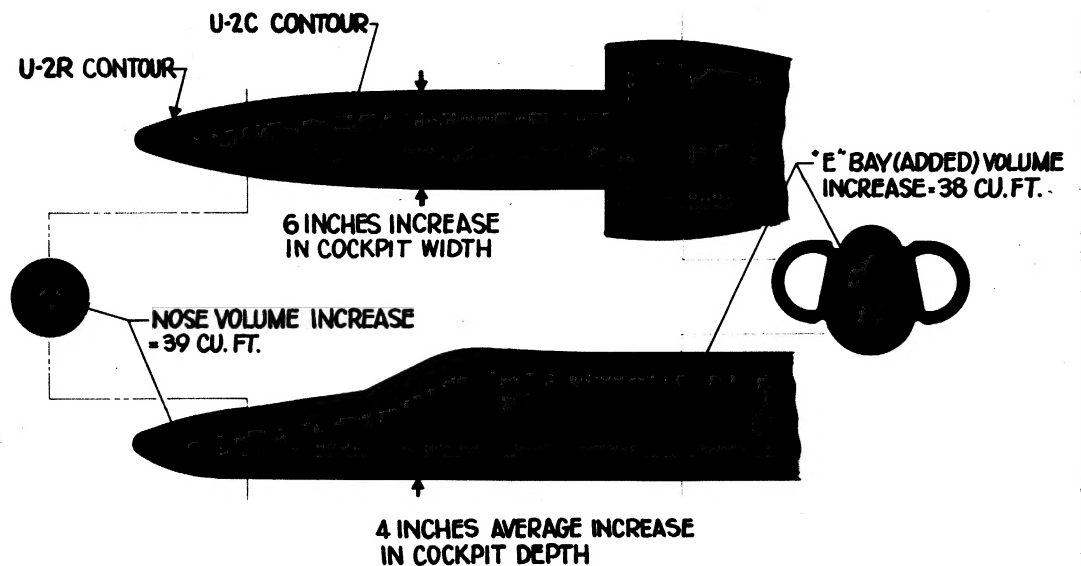
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## U-2R INBOARD PROFILE

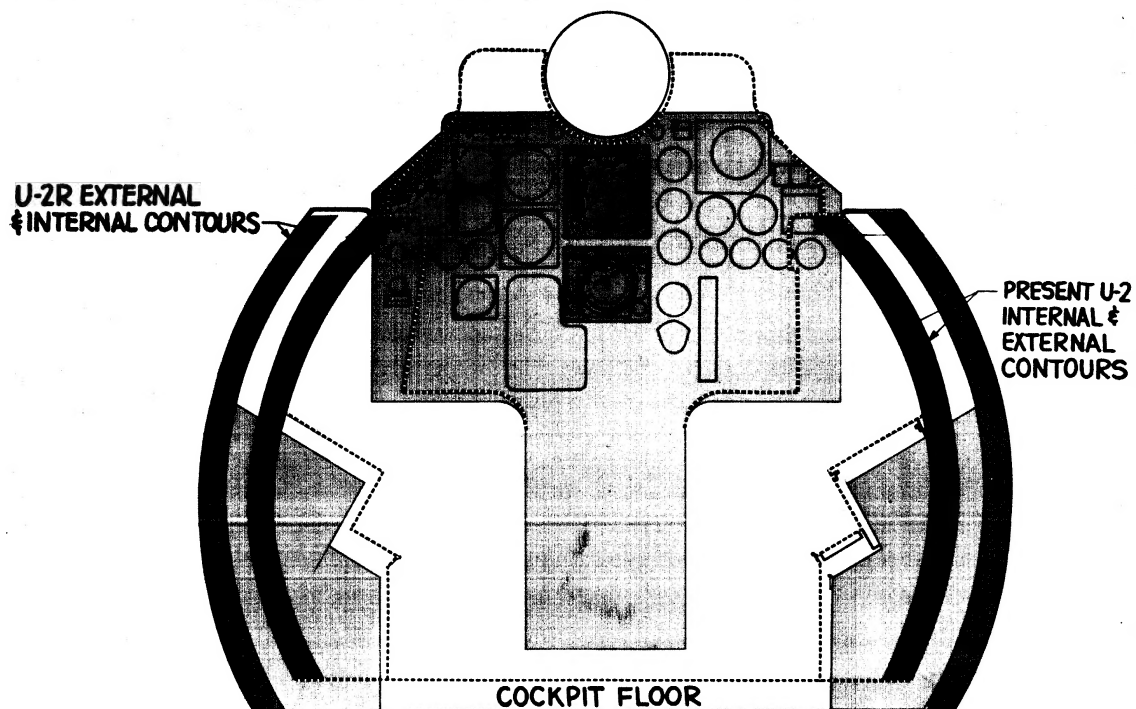


# INTERNAL VOLUME COMPARISON

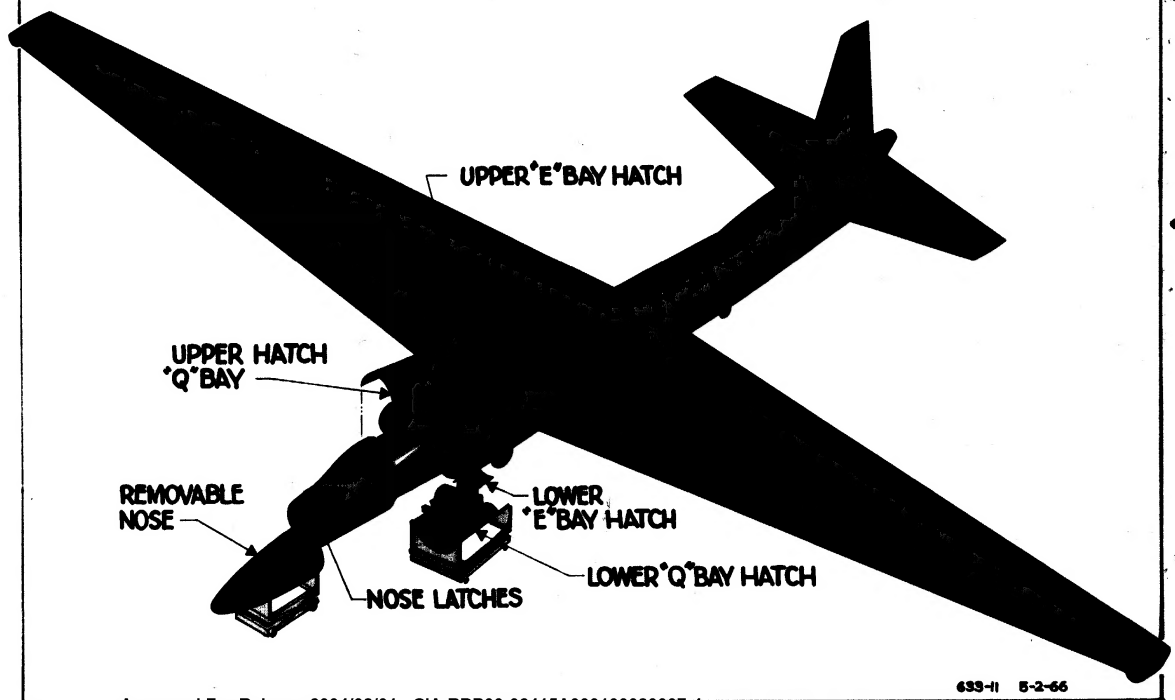
U-2R & U-2C



## U-2R PILOTS INSTRUMENT PANEL



## U-2R QUICK CHANGE PAYLOAD CAPABILITY



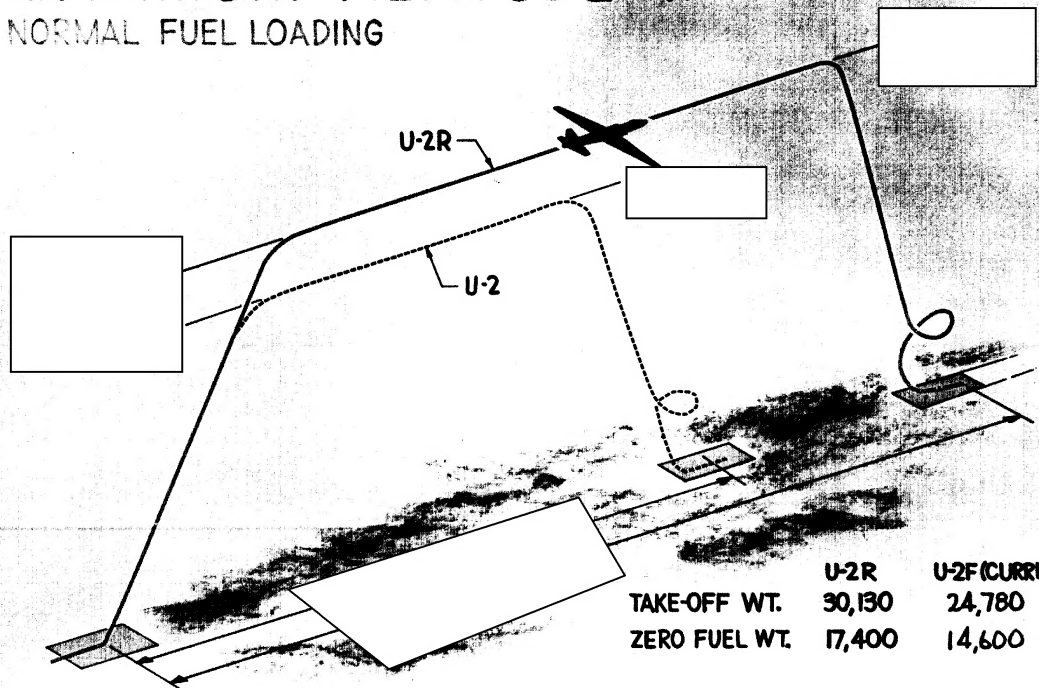
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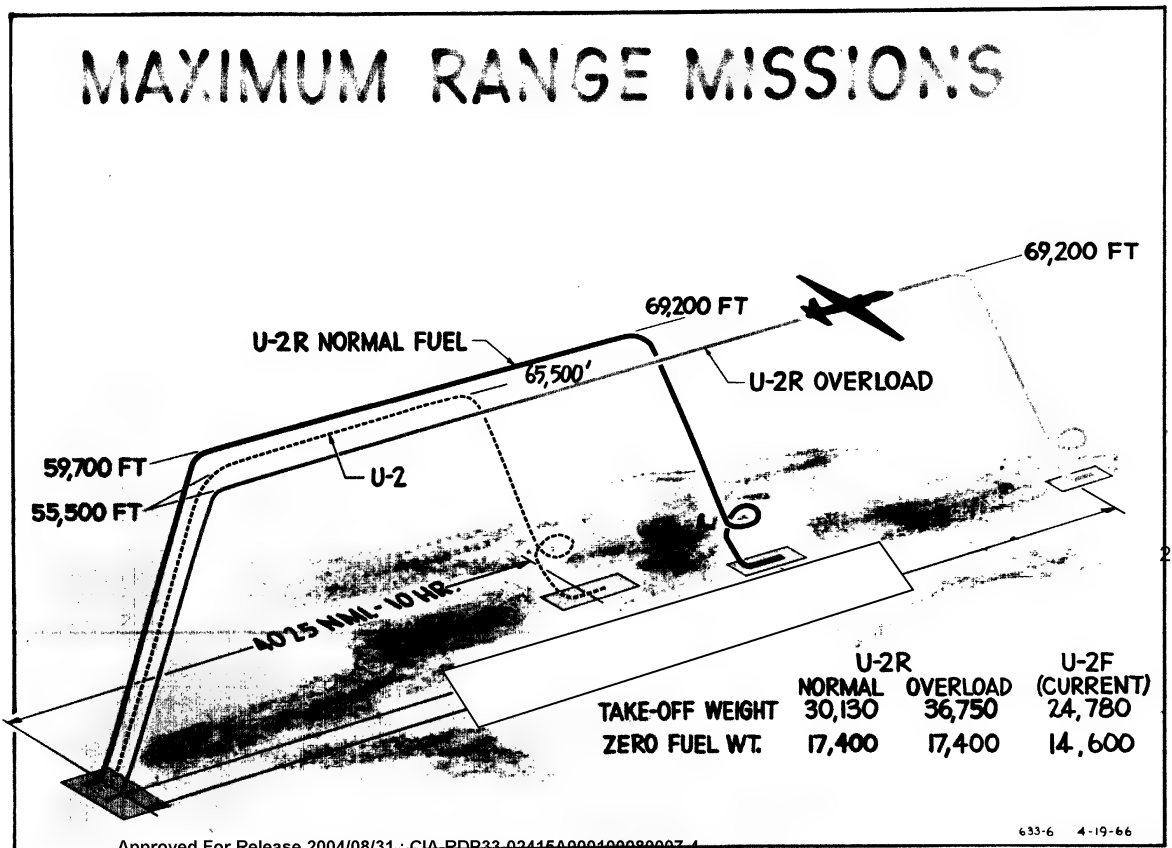
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# MAXIMUM ALTITUDE MISSION

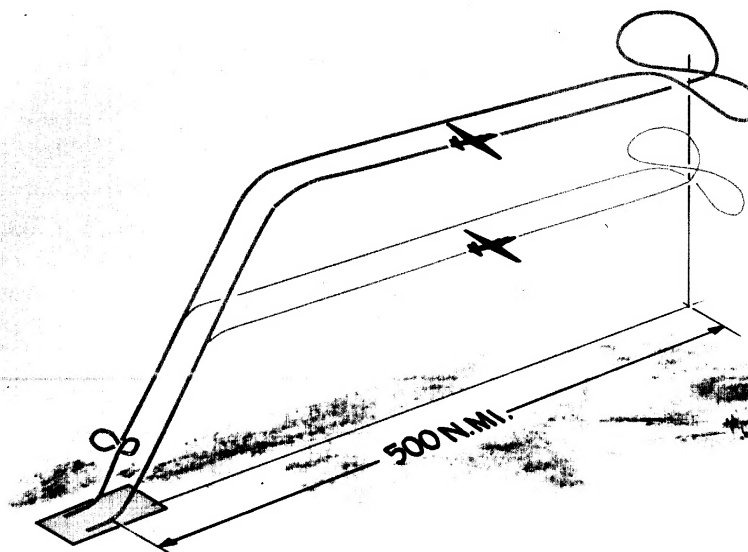
NORMAL FUEL LOADING





# LOITER MISSIONS

MAX. TAKE-OFF WEIGHT 36,750 LBS.

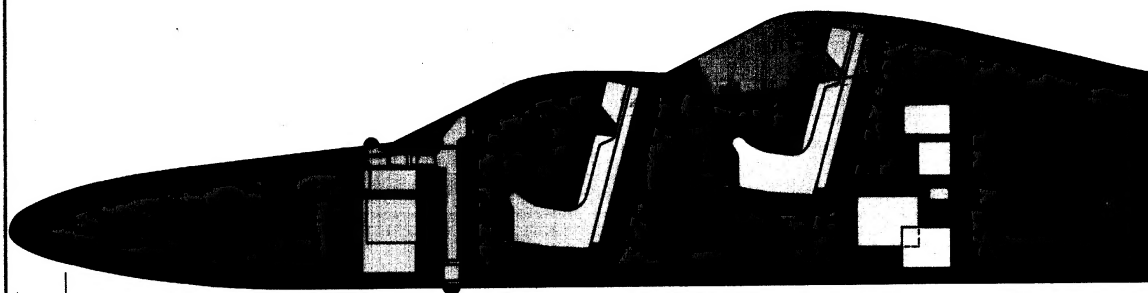


MAX. ALTITUDE-LOITER  
11 HRS. 20 MIN. @  
64,800  ALTITUDE

MAX. TIME-LOITER  
14 HRS. 50 MIN. @  
56,200 - 68,400 FT. ALTITUDE

STAT

# INB'D PROFILE U-2R TRAINER



REMOVABLE NOSE  
PAYLOAD AREA

## **U-2R MINIMUM DEVELOPMENT WITH MAXIMUM EXPERIENCE**

### **PERFORMANCE AND FLYING QUALITIES**

- U-2R IS  $\frac{1}{3}$  SCALED UP VERSION OF BASIC U-2.
- WING ASPECT RATIO AND THICKNESS RATIO ARE UNCHANGED.
- PERFORMANCE BASED ON OVER 100,000 HOURS OF U-2 FLIGHT TIME.
- IMPROVED LONGITUDINAL TRIM WITH ALL MOVING HORIZONTAL STABILIZER.
- CONFIGURATION CHANGES INCORPORATED TO IMPROVE PRESENT U-2 FLYING QUALITIES
- NO TECHNICAL "BREAK-THROUGHS" REQUIRED IN THE AIRFRAME OR ENGINE.

## **U-2R MINIMUM DEVELOPMENT WITH MAXIMUM EXPERIENCE**

### **STRUCTURE AND WEIGHT**

- **STRUCTURAL CRITERIA UNCHANGED FOR U-2R.**
- **STRUCTURAL ARRANGEMENT ESSENTIALLY THE SAME AS THE BASIC U-2.**
- **LOAD AND STRESS ANALYSES PROVEN BY OVER 100,000 HOURS OF U-2 FLIGHT TIME.**
- **CONVENTIONAL ALUMINUM ALLOYS USED THROUGHOUT.**
- **WEIGHT ESTIMATE IS CONVENTIONAL EXTENSION OF ACTUAL U-2 WEIGHTS.**